

AC POWER SOLUTIONS

ECube

ENERGY STORAGE SYSTEM



High security:

It uses a lithium iron phosphate battery and a built-in fire protection unit to ensure the safe and reliable operation of the system.

Full Seamless Parallel Separation Switching:

Built-in 60KW parallel isolation switching module, supports full seamless switching and protects critical loads.

High degree of integration:

It integrates battery system, MPPT controller, PCS energy module, STS parallel separation switching module and EMS energy management system for quick installation and deployment.

Fast installation:

It has a built-in high-voltage solar collector box, and can be easily connected by simply connecting the solar panel serially and connecting it to the device.

Cabinet level scalability:

It supports 5 cabinet-level scalability and has a network capacity of 600kW/785kWh.

Flexible deployment:

Users can do distributed deployments and deploy as needed.

Direct solar panel connection:

It has a built-in 120KW MPPT controller and supports up to 20 paths of solar input.

Long cycle life:

It uses a lithium iron phosphorous battery and has a cycle life of over 8000 times, guaranteeing a system life of over 15 years.

Easy maintenance:

The fully modular design allows for replacement as needed.

ECube AC Solution

The Renon ECube AC 157kWh is the perfect energy storage solution for businesses looking to optimize their energy usage. State-of-the-art AC microgrid technology delivers high efficiency and reliability, while modular design allows for easy customization and scaling. Advanced safety features and remote monitoring capabilities ensure a safe and reliable system at all times.

Battery specifications

Cell capacity (Ah)	280
battery module	1P85
combination of modules	22 modules in series
Rated capacity (kWh)	157
Rated voltage (V)	563.2V
Voltage range (V)	475.2~651.2
Charge/discharge C-rate	≤0.8C
DOD	90% DoD
cycle life	>8000 cycles
Cooling method	air conditioning
Firefighting equipment	Aerosol fire extinguishing equipment

AC input specifications

Rated voltage (Vac)	230/400, 3P+N+PE
Maximum continuous input current (Aac)	172
frequency (Hz)	50
Rated power (kW)	120
Maximum input power (kW)	120
Maximum active power (kW)	120
Power factor	0.8cap-0.8ind

System characteristics

peak efficiency	98.5%
Communication method	CAN, RS485, Wi-Fi
service life	10 years
Certification (to be obtained)	UL1973/UL9540/ UL9540A/IEC62619/UN38.3
safety certification	CE
EMC standards	FCC

PV input parameters (optional)

Maximum input voltage (V)	900
Rated voltage (V)	350
Voltage range (V)	200-900
MPPT	2
Rated power (kW)	120

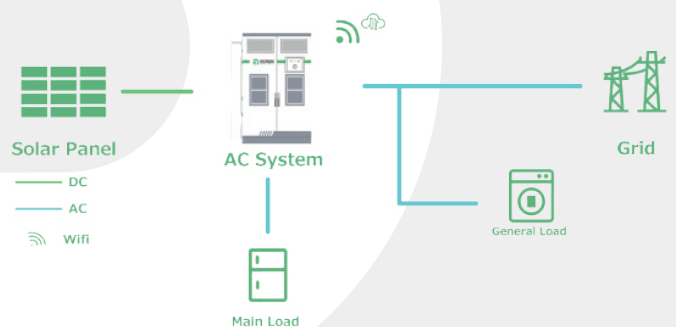
AC output specifications

Rated voltage (Vac)	230/400, 3P+N+PE
frequency (Hz)	50/60
Maximum continuous output current (Aac)	86
Rated power (kW)	50
Maximum output power (kW)	60
Maximum active power (kW)	60
Unbalanced load capacity	100%
overload capacity	35 °C 110%-120%@10 min,120%@1 min
switching time	≤ 20ms

General specifications

Dimensions (L*H*W) (mm)	TBD
Weight (kg)	TBD
Cooling method	air conditioning
elevation	>3000m
Noise level @1m	<75 dB
protection level	IP55
Operating temperature range	-20°C to 55°C
humidity	0 to 95%, non-condensing

System Layout



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